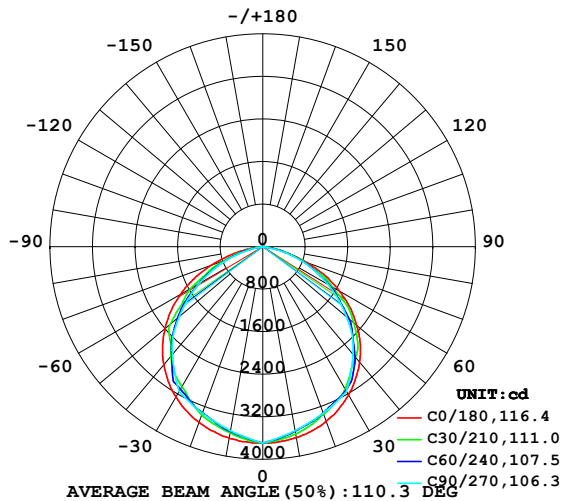


## LUMINAIRE PHOTOMETRIC TEST REPORT

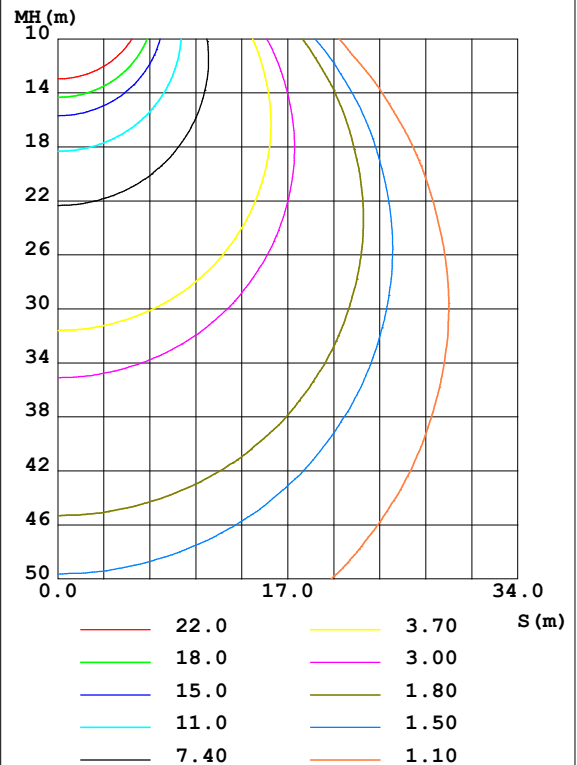
Test:U:120.15V I:0.5250A P:62.694W PF:0.9940 Freq:59.98Hz Lamp Flux:9797.39x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 156.27 lm/W			
MODEL	GHLV-10-U	I <sub>max</sub> (cd)	3696	S/MH(C0/180)	1.31
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	9797.4	□ UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	9797.39	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	3647	3543	3513	3535	3658	3539	3515	3547	0- 10	344.2	344.2	3.51, 3.51
20	3491	3349	3329	3313	3516	3315	3332	3353	10- 20	978.8	1323	13.5, 13.5
30	3225	3085	3145	3074	3266	3071	3147	3088	20- 30	1498	2821	28.8, 28.8
40	2835	2752	2639	2774	2897	2775	2645	2753	30- 40	1832	4653	47.5, 47.5
50	2308	2126	2061	2180	2401	2169	2054	2133	40- 50	1886	6539	66.7, 66.7
60	1663	1452	1411	1488	1783	1471	1372	1452	50- 60	1632	8170	83.4, 83.4
70	892.5	795.5	764.1	780.4	1033	745.1	693.3	761.7	60- 70	1119	9289	94.8, 94.8
80	168.2	192.7	0	179.2	294.9	129.8	0	160.6	70- 80	476.6	9766	99.7, 99.7
90	9.998	0	0	0	10.47	0	0	0	80- 90	31.36	9797	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5607.4 lm

%lum = 57.2%

%lamp = 57.2%

Conical surface Flux(120deg): 8170.3 lm

%lum = 83.4%

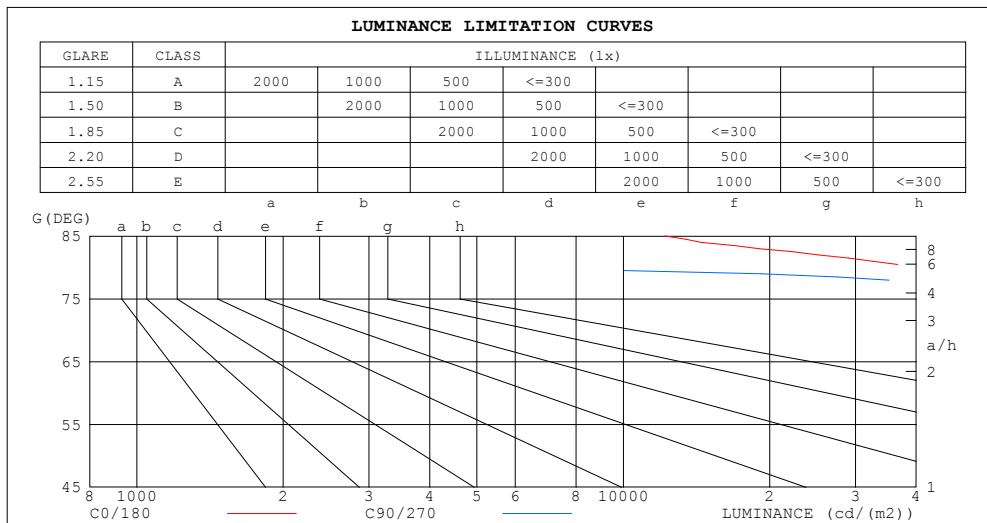
%lamp = 83.4%

H(□) Range:-90 - 90DEG  
 H(□) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jessy  
 Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.178m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:120.15V I:0.5250A P:62.694W PF:0.9940 Freq:59.98Hz Lamp Flux:9797.39x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12182	0
80	40348	0
75	80253	70651
70	108730	93084
65	128860	107168
60	138566	117587
55	145806	126158
50	149607	133603
45	152907	140709

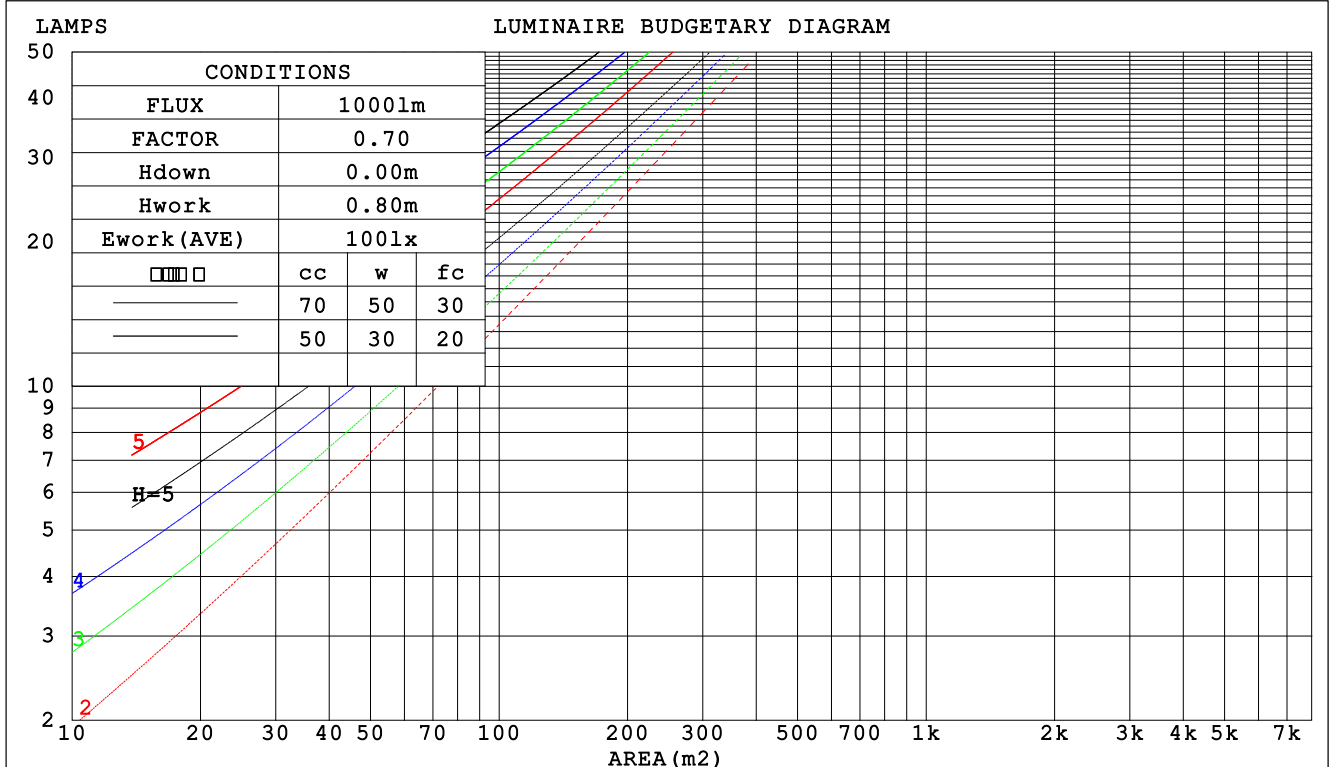
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.15V I:0.5250A P:62.694W PF:0.9940 Freq:59.98Hz Lamp Flux:9797.39x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:120.15V I:0.5250A P:62.694W PF:0.9940 Freq:59.98Hz Lamp Flux:9797.39x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0	
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
□fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.281	.160	.051	.274	.156	.050	.261	.150	.048	.249	.143	.046	.237	.138	.044		
2.0	.273	.149	.046	.266	.147	.045	.255	.142	.044	.244	.137	.043	.234	.133	.042		
3.0	.257	.137	.041	.251	.134	.040	.241	.131	.040	.232	.127	.039	.223	.123	.038		
4.0	.239	.124	.037	.235	.123	.036	.226	.120	.036	.217	.117	.035	.209	.114	.035		
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.032	.203	.107	.032	.196	.105	.032		
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029		
7.0	.194	.096	.027	.191	.095	.027	.185	.093	.027	.179	.092	.027	.173	.090	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024		
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.154	.078	.023		
10.0	.161	.077	.021	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.073	.021		

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.137	.153	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.145	.114	.087	.100	.079	.060	.057	.046	.035	.018	.015	.012	
3.0	.162	.114	.076	.139	.099	.066	.095	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.154	.101	.060	.133	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.026	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.15V I:0.5250A P:62.694W PF:0.9940 Freq:59.98Hz Lamp Flux:9797.39x1 lm										
NAME: LED Linear Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:60W/5000K					DIM.: 1450*10mm			SERIAL No.:N/A		
MFR.: Grin Industrial Co., Ltd.					SUR.:N/A			Shielding Angle:N/A		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	22.2	23.7	22.5	23.9	24.1	21.7	23.2	22.0	23.4	23.6
3H	23.5	24.8	23.8	25.1	25.3	22.9	24.2	23.2	24.5	24.7
4H	23.8	25.1	24.1	25.4	25.6	23.2	24.5	23.5	24.7	25.0
6H	23.9	25.1	24.3	25.4	25.7	23.2	24.4	23.5	24.7	24.9
8H	23.9	25.1	24.2	25.3	25.6	23.1	24.3	23.5	24.6	24.9
12H	23.9	25.0	24.2	25.3	25.6	23.1	24.2	23.4	24.5	24.8
4H 2H	22.7	24.0	23.0	24.2	24.5	22.3	23.6	22.6	23.8	24.1
3H	24.1	25.2	24.4	25.5	25.8	23.6	24.7	23.9	25.0	25.3
4H	24.5	25.5	24.9	25.8	26.2	24.0	25.0	24.4	25.3	25.7
6H	24.7	25.6	25.1	25.9	26.3	24.0	24.9	24.4	25.3	25.6
8H	24.7	25.5	25.1	25.9	26.3	24.0	24.8	24.4	25.2	25.5
12H	24.7	25.4	25.1	25.8	26.2	23.9	24.7	24.3	25.1	25.5
8H 4H	24.6	25.4	25.0	25.8	26.2	24.1	25.0	24.5	25.3	25.7
6H	24.9	25.6	25.3	26.0	26.4	24.2	24.9	24.6	25.3	25.7
8H	24.9	25.5	25.4	25.9	26.4	24.1	24.8	24.6	25.2	25.6
12H	24.9	25.4	25.4	25.9	26.3	24.1	24.6	24.6	25.1	25.5
12H 4H	24.6	25.3	25.0	25.7	26.1	24.1	24.9	24.5	25.3	25.7
6H	24.9	25.5	25.3	25.9	26.3	24.2	24.8	24.6	25.2	25.7
8H	24.9	25.4	25.4	25.9	26.3	24.1	24.7	24.6	25.1	25.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.4 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.6					+ 0.4 / - 0.4				

CIE Pub.117, 9797 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 7.9$ )  
Area: 0.024 m<sup>2</sup>

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.15V I:0.5250A P:62.694W PF:0.9940 Freq:59.98Hz Lamp Flux:9797.39x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

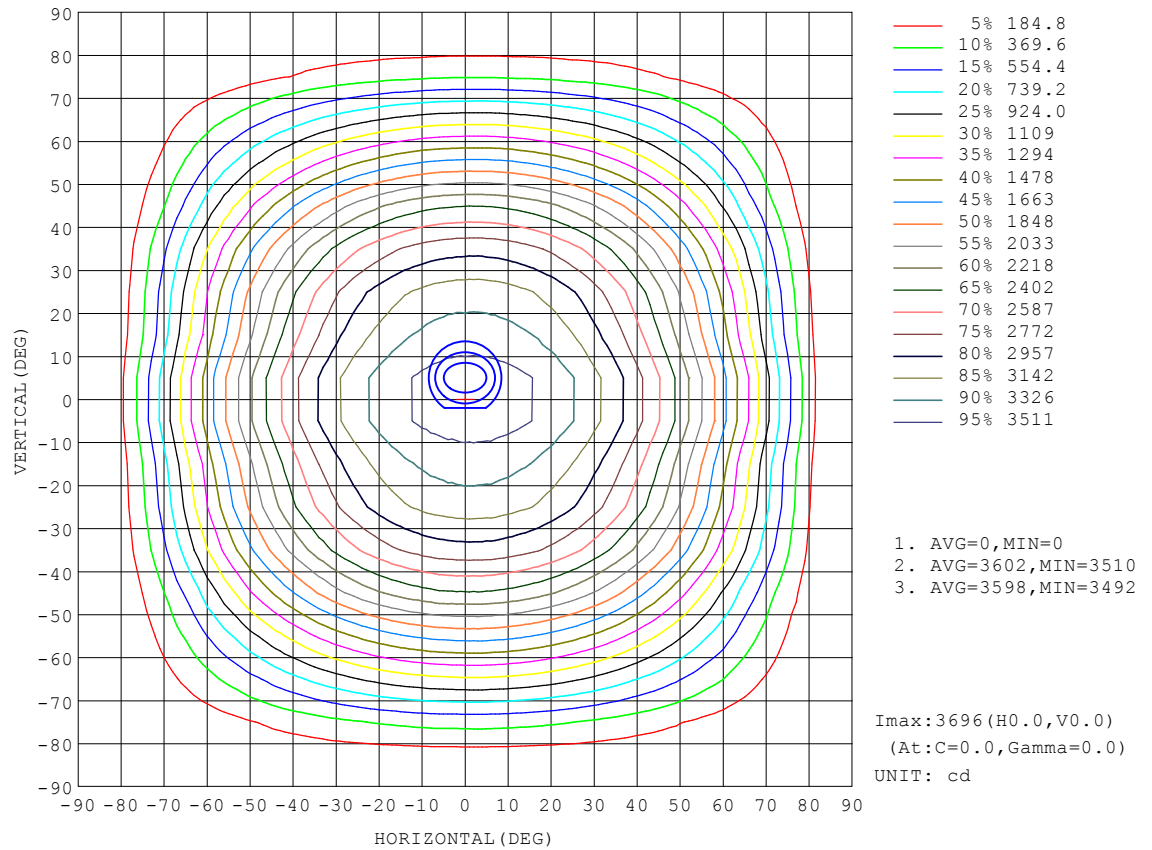
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	47	41	57	47	40	34
0.80	69	58	51	68	58	51	66	57	50	44
1.00	78	67	60	77	67	60	75	68	59	53
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	81	74	88	80	74	85	78	73	65
2.00	97	89	83	95	88	82	92	85	81	73
2.50	101	93	88	99	92	87	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	108	102	98	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H(□) Range:-90 - 90DEG  
 H(□) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jessy  
 Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.178m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:120.15V I:0.5250A P:62.694W PF:0.9940 Freq:59.98Hz Lamp Flux:9797.39x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



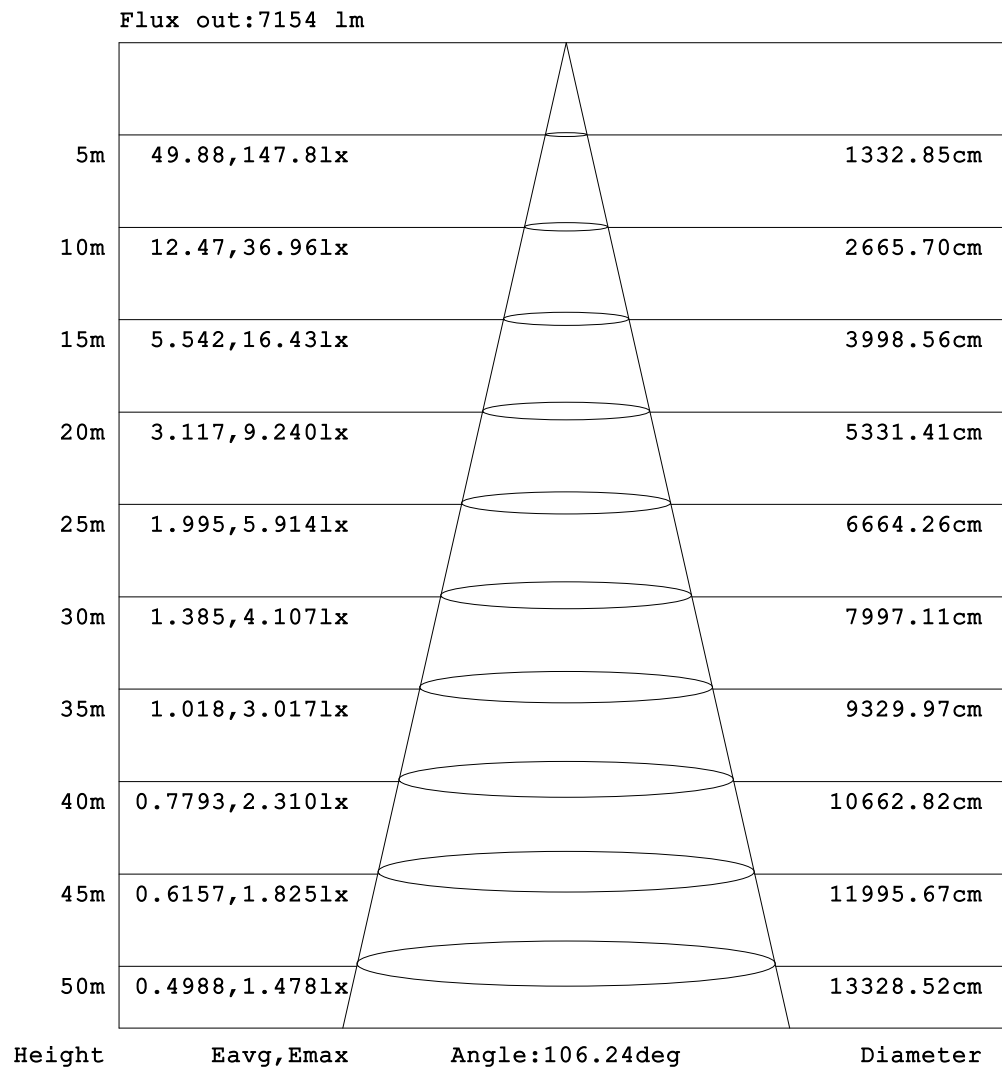
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:120.15V I:0.5250A P:62.694W PF:0.9940 Freq:59.98Hz Lamp Flux:9797.39x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



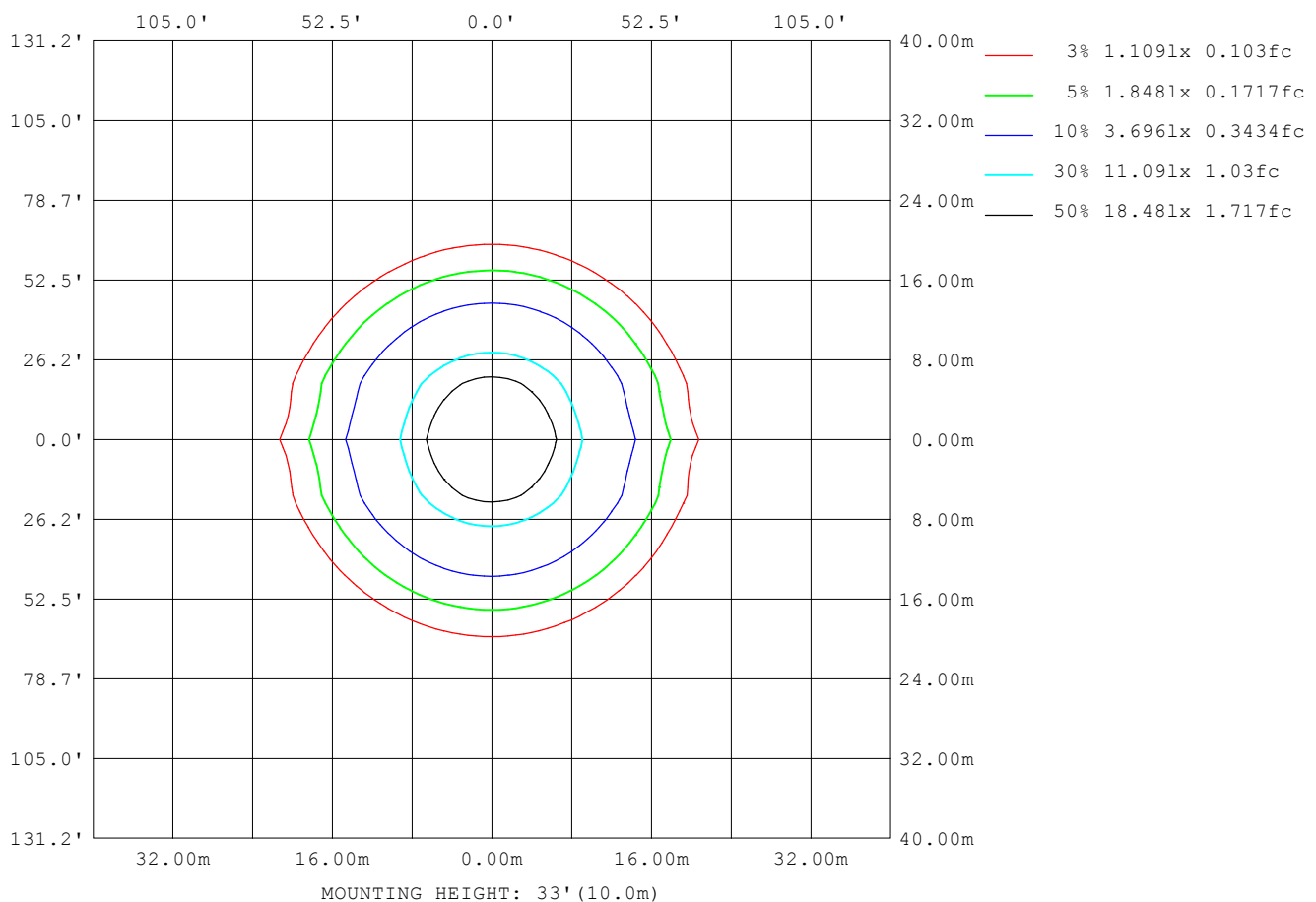
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:120.15V I:0.5250A P:62.694W PF:0.9940 Freq:59.98Hz Lamp Flux:9797.39x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:120.15V I:0.5250A P:62.694W PF:0.9940 Freq:59.98Hz Lamp Flux:9797.39x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

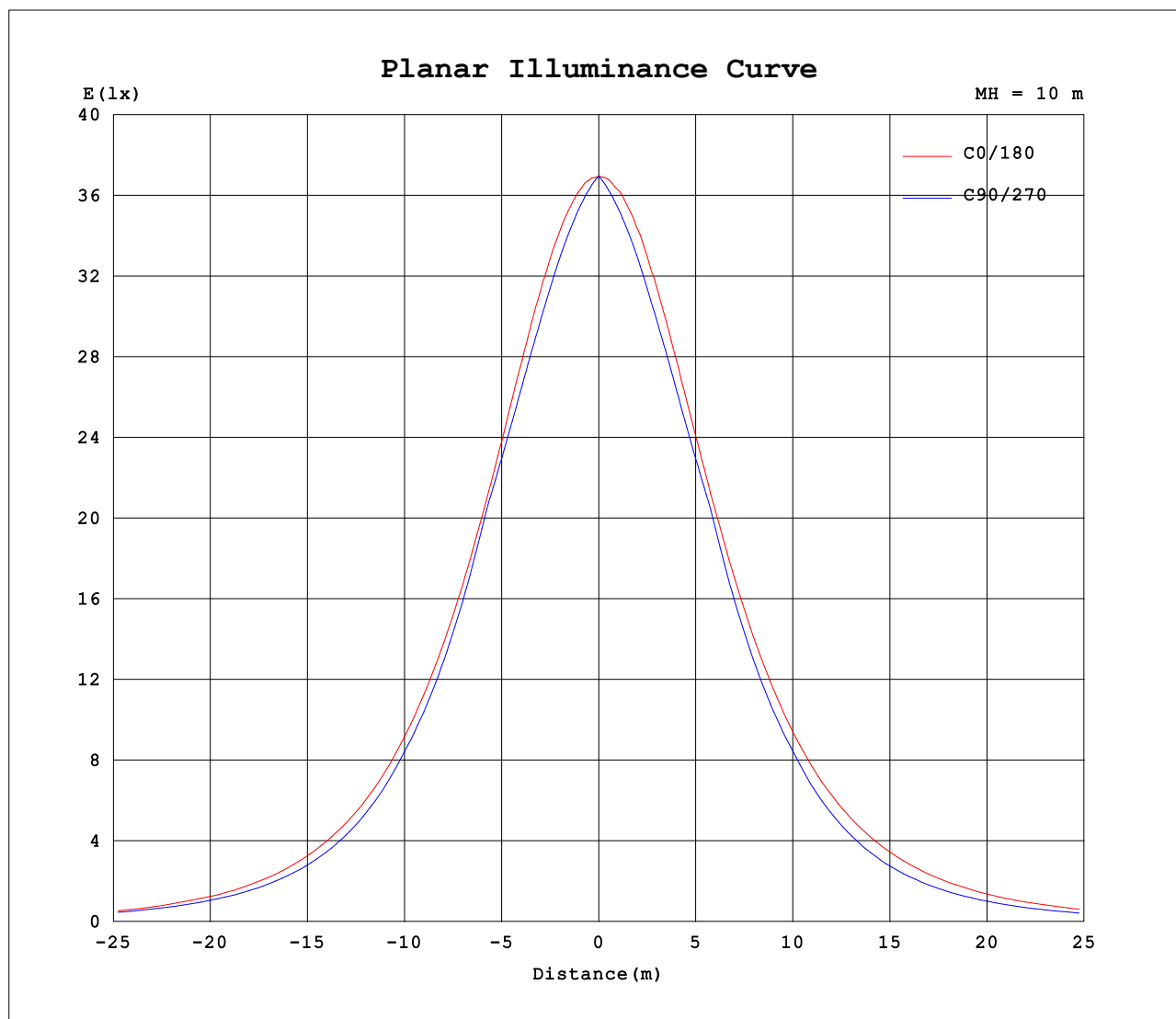
AvgL	cd/m2
L_0~180 (65) av	134743
L_0~180 (75) av	92926
L_0~180 (85) av	19101
L_90~270 (65) av	104440
L_90~270 (75) av	63784
L_90~270 (85) av	0
L_45 (65) av	109069
L_45 (75) av	74528
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2025-01-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.178m [K=1.0000]  
Remarks:

```
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.178m [K=1.0000]
Remarks:
```

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V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
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Humidity:65.0%
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Remarks:
```